

April 11, 2024

Mr. Allan Mount, Maintenance Specialist
Green Hill School
375 SW 11th Street
Chehalis, WA 98532

Subject: Final Air Discharge Permit for Replacement Burner (Boiler #3)

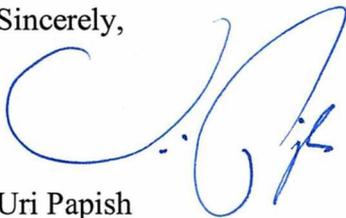
Dear Mr. Mount:

A final determination to issue Air Discharge Permit 24-3642 (ADP 24-3642) has been completed for Air Discharge Permit (ADP) Application L-742 pursuant to Section 400-110(4) of the General Regulations for Air Pollution Sources of the Southwest Clean Air Agency (SWCAA). Public notice for ADP Application L-742 was published in the permit section of SWCAA's internet website on February 27, 2024. SWCAA did not receive a request for a public comment period in response to the public notice and has concluded that significant public interest does not exist for this determination. Therefore, a public comment period will not be provided for this permitting action. Electronic copies of ADP 24-3642 and the associated Technical Support Document are available for public review in the permit section of SWCAA's internet website (<http://www.swcleanair.gov/permits/adpfinal.asp>). Original copies are enclosed for your files.

This Air Discharge Permit may be appealed directly to the Pollution Control Hearings Board (PCHB) within 30 days of receipt as provided in RCW 43.21B.

If you have any comments, or desire additional information, please contact me or Wess Safford at (360) 574-3058, extension 126.

Sincerely,



Uri Papish
Executive Director

UP:wls

Enclosure – Air Discharge Permit 24-3642 and Technical Support Document





SWCAA
Southwest Clean Air Agency

**AIR DISCHARGE PERMIT
24-3642**

Issued: April 11, 2024

Green Hill School
375 SW 11th Street, Chehalis, WA 98532

SWCAA ID - 481



REVIEWED BY:


Clinton Lamoreaux, Chief Engineer

APPROVED BY:


Uri Papish, Executive Director

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1. Equipment/Activity Identification

ID No.	Equipment/Activity	Control Measure/Equipment
1	Boiler #1 (Burnham – 6.28 MMBtu/hr)	Low NO _x Burner, Low Sulfur Fuel (Nat Gas)
2	Boiler #2 (Burnham – 16.8 MMBtu/hr)	Low NO _x Burner, Low Sulfur Fuel (Nat Gas)
3	Boiler #3 (Burnham – 16.8 MMBtu/hr)	Low NO _x Burner, Low Sulfur Fuel (Nat Gas)
4	Diesel Engine – Emergency Generator (Caterpillar – 2,172 hp)	Low sulfur diesel ($\leq 0.05\%$ by wt)
5	Spray Booth – Auto Shop (JBI – 12,000 acfm)	Process Enclosure with Particulate Filtration High Transfer Efficiency Spray Equipment
6	Paint Mixing Area – Auto Shop (JBI - 635 acfm)	N/A
7	Spray Booth – Maintenance (JBI – 8,750 acfm)	Process Enclosure with Particulate Filtration High Transfer Efficiency Spray Equipment
8	Heaters (Combined – 1.8998 MMBtu/hr)	Low Sulfur Fuel (Nat Gas)

2. Approval Conditions

The following tables detail the specific requirements of this permit. In addition to the requirements listed below, equipment at this facility may be subject to other federal, state, and local regulations. The permit requirement number is identified in the left-hand column. The text of the permit requirement is contained in the middle column. The emission unit, equipment, or activity to which the permit requirement applies is listed in the right-hand column.

ADP 24-3642 supersedes ADP 01-2338 in its entirety.

Emission Limits

Req. No.	Emission Limits	Equipment/ Activity ID No.												
1.	<p>Emissions from Boiler #1 must not exceed the following:</p> <table border="1"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>NO_x</td> <td>1.00 tpy</td> </tr> <tr> <td>CO</td> <td>1.01 tpy</td> </tr> <tr> <td>VOC</td> <td>0.15 tpy</td> </tr> <tr> <td>SO₂</td> <td>0.016 tpy</td> </tr> <tr> <td>PM₁₀</td> <td>0.20 tpy</td> </tr> </tbody> </table> <p>Annual emissions must be calculated based on actual fuel consumption consistent with the methodology in Section 6 of the Technical Support Document for this Permit.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	NO _x	1.00 tpy	CO	1.01 tpy	VOC	0.15 tpy	SO ₂	0.016 tpy	PM ₁₀	0.20 tpy	1
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SO ₂	0.016 tpy													
PM ₁₀	0.20 tpy													

Req. No.	Emission Limits	Equipment/ Activity ID No.												
2.	<p>Combined emissions from Boiler #2 and Boiler #3 while firing natural gas must not exceed the following:</p> <table border="0"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>NO_x</td> <td>2.68 tpy</td> </tr> <tr> <td>CO</td> <td>2.72 tpy</td> </tr> <tr> <td>VOC</td> <td>0.40 tpy</td> </tr> <tr> <td>SO₂</td> <td>0.043 tpy</td> </tr> <tr> <td>PM₁₀</td> <td>0.55 tpy</td> </tr> </tbody> </table> <p>Annual emissions must be calculated based on actual fuel consumption consistent with the methodology in Section 6 of the Technical Support Document for this Permit.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	NO _x	2.68 tpy	CO	2.72 tpy	VOC	0.40 tpy	SO ₂	0.043 tpy	PM ₁₀	0.55 tpy	2-3
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2.	<p>Combined emissions from the hot water boilers while firing #2 diesel must not exceed the following:</p> <table border="0"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>NO_x</td> <td>0.33 tpy</td> </tr> <tr> <td>CO</td> <td>0.083 tpy</td> </tr> <tr> <td>VOC</td> <td>0.0056 tpy</td> </tr> <tr> <td>SO₂</td> <td>0.12 tpy</td> </tr> <tr> <td>PM₁₀</td> <td>0.033 tpy</td> </tr> </tbody> </table> <p>Annual emissions must be calculated based on actual fuel consumption consistent with the methodology in Section 6 of the Technical Support Document for this Permit.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	NO _x	0.33 tpy	CO	0.083 tpy	VOC	0.0056 tpy	SO ₂	0.12 tpy	PM ₁₀	0.033 tpy	1-3
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3.	<p>Emission concentrations in hot water boiler exhaust must not exceed the following:</p> <table border="0"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>NO_x</td> <td>30 ppmvd @ 3% O₂, 1-hr avg (Boilers #1 and #2) 12 ppmvd @ 3% O₂, 1-hr avg (Boiler #3)</td> </tr> <tr> <td>CO</td> <td>50 ppmvd @ 3% O₂, 1-hr avg</td> </tr> </tbody> </table>	<u>Pollutant</u>	<u>Emission Limit</u>	NO _x	30 ppmvd @ 3% O ₂ , 1-hr avg (Boilers #1 and #2) 12 ppmvd @ 3% O ₂ , 1-hr avg (Boiler #3)	CO	50 ppmvd @ 3% O ₂ , 1-hr avg	1-3						
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4.	<p>Combined emissions from spray coating operations must not exceed:</p> <table border="0"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>VOC</td> <td>1.00 tpy</td> </tr> <tr> <td>PM₁₀</td> <td>0.01 tpy</td> </tr> <tr> <td>TAPs</td> <td>Spray coating VOC emission limit (collectively) SQER for each TAP (individually)</td> </tr> </tbody> </table> <p>Annual emissions must be calculated based on actual operation consistent with the methodology in Section 6 of the Technical Support Document for this Permit.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	VOC	1.00 tpy	PM ₁₀	0.01 tpy	TAPs	Spray coating VOC emission limit (collectively) SQER for each TAP (individually)	5-7				
<u>Pollutant</u>	<u>Emission Limit</u>													
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TAPs	Spray coating VOC emission limit (collectively) SQER for each TAP (individually)													

Req. No.	Emission Limits	Equipment/ Activity ID No.								
5.	<p>Combined emissions from heaters at this facility must not exceed the following:</p> <table> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>NO_x</td> <td>0.82 tpy</td> </tr> <tr> <td>CO</td> <td>0.69 tpy</td> </tr> <tr> <td>PM₁₀</td> <td>0.06 tpy</td> </tr> </tbody> </table> <p>Annual emissions must be calculated based on actual fuel consumption consistent with the methodology in Section 6 of the Technical Support Document for this Permit.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	NO _x	0.82 tpy	CO	0.69 tpy	PM ₁₀	0.06 tpy	8
<u>Pollutant</u>	<u>Emission Limit</u>									
NO _x	0.82 tpy									
CO	0.69 tpy									
PM ₁₀	0.06 tpy									
6.	<p>Visible emissions from approved equipment must not exceed the following for more than 3 minutes in any one-hour period as determined by a Certified Observer certified in accordance with SWCAA Method 9 (See Appendix A of SWCAA 400).</p> <table> <thead> <tr> <th><u>Equipment</u></th> <th><u>Opacity Limit</u></th> </tr> </thead> <tbody> <tr> <td>Boilers while firing diesel</td> <td>5%</td> </tr> <tr> <td>Diesel engine</td> <td>5%*</td> </tr> <tr> <td>All other equipment</td> <td>0%</td> </tr> </tbody> </table> <p>* This limit does not apply during startup. For the purposes of this requirement, a startup period ends when the earlier of the following operating events occurs:</p> <ol style="list-style-type: none"> The engine has reached normal operating temperature; or The engine has been operating for 15 minutes. 	<u>Equipment</u>	<u>Opacity Limit</u>	Boilers while firing diesel	5%	Diesel engine	5%*	All other equipment	0%	1-8
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Operating Limits and Requirements

Req. No.	Operating Limits and Requirements	Equipment/ Activity ID No.
7.	Reasonable precautions must be taken at all times to prevent and minimize fugitive emissions from plant operations.	Facility-wide
8.	The permittee must use recognized good practice and procedures to reduce odors to a reasonable minimum.	Facility-wide
9.	Each pollution control device/measure must be in use whenever the associated production equipment is in operation. Control devices must be operated and maintained in accordance with the manufacturer's specifications and operated in a manner that minimizes emissions.	Facility-wide
10.	Emission units identified in this Permit must be maintained and operated in total and continuous conformity with the conditions identified in this Permit. SWCAA reserves the right to take any and all appropriate action to maintain the conditions of this Permit, including directing the facility to cease operations until corrective action can be completed.	1-8
11.	The hot water boilers must only be fired on natural gas or #2 diesel. Firing of #2 diesel is limited to periods of natural gas curtailment.	1-3

Req. No.	Operating Limits and Requirements	Equipment/ Activity ID No.
12.	#2 diesel fired in the hot water boilers and emergency generator diesel engine must be #2 diesel or better. Fuel sulfur content must not exceed 0.0015% by weight (15 ppmw). A certification from the fuel supplier or test results using an appropriate method listed in 40 CFR 60.17 may be used to comply with this requirement.	1-4
13.	Corrective action must be taken within 7 days if emission monitoring results for Boiler #3 indicate emission concentrations in excess of permitted emission limits. Corrective action includes, but is not limited to, service by maintenance personnel or retesting for each pollutant of concern using a reference test method. Emission monitoring of affected units must be conducted following completion of any corrective action to confirm that the corrective action has been effective. Corrective action must be pursued until observed emission concentrations no longer exceed permitted emission limits. Initiation of corrective action does not shield the permittee from enforcement actions by SWCAA.	3
14.	Operation of the emergency generator engine must be limited to testing and periods of actual power interruption. Operation for the purpose of maintenance checks and readiness testing must not exceed 100 hours per year. A nonresettable time totalizer must be maintained on each engine and used to measure hours of operation. Operation to provide emergency power is not limited.	4
15.	Exhaust air from Boiler #3 must be discharged vertically into the ambient air. Any device that obstructs or prevents vertical discharge is prohibited.	3
16.	Exhaust air from the Auto Shop and Maintenance Spray Booths must be discharged vertically into the ambient air at a minimum height of 20 feet above ground. Any rain cap which interferes with vertical dispersion of exhaust gases is prohibited. Exhaust air from the Paint Mixing Area must be discharged a minimum height of 20 feet above ground.	5-7
17.	All containers of materials containing VOCs must be kept securely closed except when materials are being added, mixed, or removed. All materials containing VOCs which are used to clean and/or flush spray equipment or lines during cleanup must be collected in a closed container.	5-7
18.	A differential pressure gauge must be installed and maintained on each spray booth to continuously measure differential pressure across the particulate filters.	5-7
19.	All spray coating operations must be performed inside the approved spray booths. All windows and doors must be kept closed during spray coating operations.	5-7
20.	All spray coating operations must be performed with high transfer efficiency spray gun designs such as HVLP, airless, or air assist airless.	5-7
21.	Filter media installed in the Auto Shop and Maintenance Spray Booths must be 2" thick paint arrestor media or equivalent. Paint arrestor media must be replaced prior to exceeding 1.0" w.c. pressure drop as measured across the filters to maintain collection efficiency.	5, 7

Monitoring and Recordkeeping Requirements

Req. No.	Monitoring and Recordkeeping Requirements	Equipment/ Activity ID No.
22.	All air quality related complaints, including odor complaints, received by the permittee and the results of any subsequent investigation or corrective action must be recorded for each occurrence.	Facility-wide
23.	With the exception of data logged by a computerized data acquisition system, each record required by this Permit must include the date and the name of the person making the record entry. If a control device or process is not operating during a specific time period, a record must be made to that effect.	1-8
24.	All records required by this Permit must be kept for a minimum period of no less than three years and must be maintained in a form readily available for inspection by SWCAA representatives.	1-8
25.	Excess emissions and upset conditions must be recorded for each occurrence.	1-8
26.	The following information must be collected, recorded at the intervals specified below, and maintained readily available on-site for inspection: (a) Date and time of boiler fuel changes Recorded for each occurrence (b) Fuel consumption in hot water boilers, heaters, and emergency generator Recorded monthly (c) Hours of emergency generator operation Recorded monthly (d) Fuel supplier certification of sulfur content Recorded for each fuel oil delivery (e) Type and quantity of material used in spray coating operations Recorded monthly (f) Pressure drop across filter media in spray booths Recorded weekly (g) Filter media replacement in spray booths Recorded for each occurrence (h) Maintenance activities that may affect emissions from approved equipment Recorded for each occurrence (i) Estimated air emissions Recorded annually	1-8

Emission Monitoring and Testing Requirements

Req. No.	Emission Monitoring and Testing Requirements	Equipment/ Activity ID No.
27.	The permittee must conduct periodic emission testing of the hot water boilers as described in Appendix A of this Permit.	1-3
28.	The permittee must conduct periodic emission monitoring of Boiler #3 as described in Appendix B of this Permit.	3

Reporting Requirements

Req. No.	Reporting Requirements	Equipment/ Activity ID No.
29.	<p>All air quality related complaints received by the permittee must be reported to SWCAA within three days of receipt. Complaint reports must include the following information:</p> <ul style="list-style-type: none"> (a) Date and time of the complaint; (b) Name of the complainant; (c) Nature of the complaint; and (d) Description of corrective action taken in response to complaint (if any). 	Facility-wide
30.	<p>A written report must be submitted to SWCAA at least seven (7) calendar days prior to the use of any new product that contains VOCs, TAPs, or HAPs. The report must contain the following:</p> <ul style="list-style-type: none"> (a) A description of the type of product (e.g., resin, paint, solvent, etc.), the Safety Data Sheets and Technical Data Sheets, and the location where the product will be used; (b) The date by which the Permittee intends to begin use of the product; (c) The amount (gallons or lbs) expected to be used; (d) A quantification of the change in VOC, HAP and TAP emissions from the use of the product; and (e) A summary of any applicable requirement that would apply as a result of the product. <p>If use of the new product would cause any emission limit or SQER to be exceeded, the Permittee must submit an ADP application to SWCAA to request a revision to this ADP. The Permittee must not begin using the new product until a revised ADP is issued.</p> <p>Any new product that is only to be used for testing purposes with a quantity of five (5) gallons or less of usage does not need to be reported to SWCAA prior to use.</p>	Facility-wide
31.	<p>Excess emissions must be reported to SWCAA as follows:</p> <ul style="list-style-type: none"> (a) As soon as possible, but no later than 12 hours after discovery for emissions that represent a potential threat to human health or safety; (b) As soon as possible, but no later than 48 hours after discovery for emissions which the permittee wishes to claim as unavoidable pursuant to SWCAA 400-107; and (c) No later than 30 days after the end of the month of discovery for all other excess emissions. 	1-8
32.	Emission test results must be reported to SWCAA in writing within 45 days of test completion.	1-3
33.	Emission monitoring results must be reported to SWCAA in writing within 15 days of completion.	3

Req. No.	Reporting Requirements	Equipment/ Activity ID No.
34.	<p>The following emission-related information must be reported to SWCAA by March 15th for the previous calendar year:</p> <ul style="list-style-type: none"> (a) Fuel consumption for the hot water boilers, heaters, and emergency generator; (b) Hours of operation for the emergency generator; (c) Type and quantity of material used in spray coating operations; and (d) Air emissions of criteria air pollutants, volatile organic compounds, toxic air pollutants (TAPs), and hazardous air pollutants (HAPs). 	1-8
35.	<p>The following must be submitted to SWCAA within 30 days of quarter end for any quarter in which #2 diesel was fired in Boiler #2 or Boiler #3:</p> <ul style="list-style-type: none"> (a) Fuel supplier certification and operator certification per 40 CFR 60.48c(d) & (f); and (b) Statement by owner or operator that submitted fuel certifications represent all the fuel combusted in the quarter. 	2-3

3. General Provisions

Req. No.	General Provisions
A.	<p>For the purpose of ensuring compliance with this ADP, duly authorized representatives of the Southwest Clean Air Agency must be permitted access to the Permittee's premises and the facilities being constructed, owned, operated and/or maintained by the Permittee for the purpose of inspecting said facilities. These inspections are required to determine the status of compliance with this ADP and applicable regulations and to perform or require such tests as may be deemed necessary.</p>
B.	<p>The provisions, terms, and conditions of this ADP bind the Permittee, its officers, directors, agents, servants, employees, successors and assigns, and all persons, firms, and corporations acting under or for the Permittee.</p>
C.	<p>The requirements of this ADP survive any transfer of ownership of the source or any portion thereof.</p>
D.	<p>This ADP must be posted conspicuously at or be readily available near the source.</p>
E.	<p>This ADP will be invalidated, in whole or in part, if construction or installation of any new or modified equipment has not commenced within eighteen (18) months from date of issuance, if construction is discontinued for a period of eighteen (18) months or more without prior SWCAA approval, or if construction is not completed within a reasonable time.</p>
F.	<p>This ADP does not supersede requirements of other Agencies with jurisdiction and further, this ADP does not relieve the Permittee of any requirements of any other governmental Agency. In addition to this ADP, the Permittee may be required to obtain permits or approvals from other agencies with jurisdiction.</p>
G.	<p>Compliance with the terms of this ADP does not relieve the Permittee from the responsibility of compliance with SWCAA General Regulations for Air Pollution Sources, previously issued Regulatory Orders, RCW 70A.15, Title 173 WAC or any other applicable emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply.</p>

Req. No.	General Provisions
H.	If any provision of this ADP is held to be invalid, all unaffected provisions of the ADP will remain in effect and be enforceable.
I.	No change in this ADP will be made or be effective except as may be specifically set forth by written order of the Southwest Clean Air Agency upon written application by the Permittee for the relief sought.
J.	The Southwest Clean Air Agency may, in accordance with RCW 70A.15, impose such conditions as are reasonably necessary to assure the maintenance of compliance with the terms of this ADP, the Washington Clean Air Act, and the applicable rules and regulations adopted under the Washington Clean Air Act.

Appendix A

Emission Testing Requirements Hot Water Boilers

1. Introduction:

The purpose of this testing is to quantify emissions from the hot water boilers and demonstrate compliance with the requirements of this Permit and applicable air quality regulations.

2. Testing Requirements:

- a. **Testing Schedule.** Emission testing of each hot water boiler must be conducted no later than the end of January 2025. Subsequent emission testing must be conducted every five years thereafter, no later than the end of January of the year in which testing is due.

Emission testing may be conducted in the three calendar months preceding the month in which testing is due. Emission testing conducted earlier requires prior approval by SWCAA. Testing before or after the due date does not modify or reset the test schedule.

- b. **Test Plan.** A comprehensive test plan must be submitted to SWCAA for review and approval at least 10 business days prior to each test. SWCAA personnel must be informed at least five business days prior to testing so that a representative may be present during testing.
- c. **Test Location.** Sampling must be conducted at the exhaust stack of each boiler.
- d. **Test Runs/Reference Test Methods.** A minimum of three test runs must be for each constituent listed below to ensure the data are representative. Compliance must be demonstrated by averaging the results of the individual sampling runs.

<u>Constituent</u>	<u>Reference Test Method</u>	<u>Minimum Test Run Duration</u>
Flow rate, temperature	EPA Methods 1 and 2	N/A
O ₂ , CO ₂ content	EPA Method 3 or 3A	60 minutes
Moisture content	EPA Method 4	60 minutes
NO _x	EPA Method 7E	60 minutes
CO	EPA Method 10	60 minutes
Opacity	SWCAA Method 9	6 minutes*

- * If visible emissions are observed during any 6-minute test run, the affected test run must be extended to a length of 60 minutes.

3. Source Operation:

- a. **Source Operations.** Source operations during the emissions test must be representative of maximum intended operating conditions.

3. Source Operation (con't):

- b. **Record of Production Parameters.** Production related parameters and equipment operating conditions must be recorded during emissions testing to correlate operating conditions with emissions. All recorded production parameters must be documented in the test results report. At a minimum, the following parameters must be recorded:
- (1) Boiler fuel consumption,
 - (2) Boiler fire rate, and
 - (3) Process startups/shutdowns.

4. Reporting Requirements:

- a. **Test Report.** Unless otherwise directed by SWCAA, a final test report must be prepared and submitted to SWCAA in an approved form within 45 calendar days of test completion and, at a minimum, must contain the following information:
- (1) Description of the source including manufacturer, model number and design capacity of the equipment, and the location of the sample ports or test locations,
 - (2) Time and date of the test and identification and qualifications of the personnel involved, including SWCAA personnel who observed the testing,
 - (3) Summary of results, reported in units and averaging periods consistent with the applicable emissions standard or unit,
 - (4) Summary of control system or equipment operating conditions,
 - (5) Summary of production related parameters cited in Section 3,
 - (6) A description of the test methods or procedures used including all field data, quality assurance/quality control procedures and documentation,
 - (7) A description of the analytical procedures used including all laboratory data, quality assurance/quality control procedures and documentation,
 - (8) Copies of field data and example calculations,
 - (9) Chain of custody information,
 - (10) Calibration documentation,
 - (11) Discussion of any abnormalities associated with the results, and
 - (12) A statement signed by the senior management official of the testing firm certifying the validity of the source test report.
- b. **Test Results.** All test results must be corrected to 3% oxygen.

5. Changes to Testing Requirements:

Emission testing must be conducted as specified in the sections above. The Permittee may submit a written request to SWCAA for approval of minor modifications to the requirements above or the testing schedule. Upon review of the request and in accordance with EPA delegation, SWCAA will inform the Permittee in writing of any approved modifications.

Appendix B

Emission Monitoring Requirements

Hot Water Boilers

1. Introduction:

The purpose of periodically monitoring boiler exhaust is to minimize emissions and provide a reasonable assurance of proper operation. Periodic monitoring may be conducted with an electrochemical cell combustion analyzer, analyzers used for reference method testing, or other analyzers pre-approved by SWCAA.

2. Monitoring Procedure:

- a. Monitoring of exhaust gases to determine emission concentrations of the constituents listed below must be conducted on a continuing 12-month cycle, no later than the end of January each year. Emission monitoring is not required during any year in which emission testing is conducted pursuant to Appendix A of this permit. If a unit is not operated in a month during which performance monitoring is due, performance monitoring of that unit must be conducted no later than the end of the calendar month in which it is next operated.

Constituents to be Measured:

Nitrogen Oxides (NO_x)

Carbon Monoxide (CO)

Oxygen (O₂)

Stack temperature

- b. Source operation during testing must be representative of maximum intended operating conditions.
- c. Alternative testing methodologies must be pre-approved by SWCAA.

3. Minimum Quality Assurance/Quality Control Measures:

- a. The analyzer(s) response to span gas of a known concentration must be determined before and after testing. No more than 12 hours may elapse between span gas response checks. The results of the analyzer response must not be valid if the difference between the pre and post response check results vary by more than 10% of the initial span gas value.
- b. Span gas concentrations must be no less than 50% and no more than 200% of the emission concentration of the corresponding permitted emission limit. A lower concentration span gas may be used if it is more representative of actual measured concentrations. Ambient air may be used to zero the CO and NO_x cells/analyzer(s) and span the oxygen cell/analyzer.
- c. Sampling must consist of at least one test consisting of at least 5 minutes of data collection. Data must not be collected until after analyzer readings have stabilized (less than 5% per minute change in emission concentration). Emission concentrations must be recorded at least once every 30 seconds during the data collection phase for a minimum of 10 readings. All test data collected following the ramp-up phase(s) must be reported to SWCAA in the designated format.

4. Reporting:

- a. All monitoring results must be recorded at the facility and reported to SWCAA in writing in a format designated by the Agency. Results must be reported within 15 calendar days of monitoring completion. At a minimum, the following information must be included in the report:
 - (1) Time and date of the performance monitoring;
 - (2) Identification of the personnel involved;
 - (3) Identification of the affected unit;
 - (4) A summary of results (NO_x, CO, O₂, etc), reported in units consistent with the applicable emission standard or limit;
 - (5) A summary of equipment operating conditions (e.g., firing rate, fuel flow, stack temperature, etc);
 - (6) A description of the evaluation methods or procedures used including all field data, quality assurance/quality control procedures and documentation;
 - (7) Copies of span gas documentation; and
 - (8) Analyzer response check documentation.
- b. Individual monitoring results must be reported as read. Final average monitoring results must be reported corrected to 3% O₂ and adjusted to reflect analyzer response to the zero and span gases (bias/drift adjustment).

5. Changes to Monitoring Requirements:

Emission monitoring must be conducted as specified in the sections above. The Permittee may submit a written request to SWCAA for approval of minor modifications to the requirements above or the monitoring schedule. Upon review of the request and in accordance with EPA delegation, SWCAA will inform the Permittee in writing of any approved modifications.